**SQL**

## **WORKSHEET – 3**

## **Solutions**

**ANS 1)** create table Customers(

customerNumber int NOT NULL PRIMARY KEY,

customerName vachar(25) NOT NULL,

contactLastName varchar(10) NOT NULL,

contactFirstName varchar(15) NOT NULL,

phone int NOT NULL, addressLine1 varchar(30) NOT NULL,

addressLine2 varchar(30) NOT NULL, city varchar(10) NOT NULL,

state varchar(10) NOT NULL,

postalCode int NOT NULL, country varchar(10) NOT NULL,

salesRepEmployeeNumber int NOT NULL, creditLimit float NOT NULL

);

**ANS 2)** create table Orders(

orderNumber int NOT NULL PRIMARY KEY,

orderDate DATE NOT NULL,

requiredDate DATE NOT NULL,

shippedDate DATE NOT NULL ,

status varchar(5) NOT NULL,

comments varchar(15),

customerNumber int NOT NULL,

PRIMRY KEY(orderNumber),

FOREIGN KEY(customerNumber) references customers(customerNumber)

);

**ANS 3)** Select \* from Orders;

**ANS 4)** Select comments from Orders;

**ANS 5)** select count(orderNumber), orderDate from Orders group by orderDate;

**ANS 6)** create table employees(

employeeNumber int NOT NULL PRIMARY KEY,

lastName varchar(10) NOT NULL, firstName varchar(10) NOT NULL,

extension varchar(25) NOT NULL, email varchar(25) NOT NULL, officeCode int, reportsTo varchar(25), jobTitle varchar(20)

Select employeeNumber, lastName, firstName from employees;

**ANS 7)** select orders.orderName, customers.customerName

from orders LEFT JOIN customers

ON orders.orderNumber= customers. customerName;

**ANS 8)** select customerName, CONCAT(lastName, firstName) from

employees LEFT JOIN customers ON

customers.salesRepEmployeeNumber=employees.employeeNumber;

**ANS 9)** create table payments(

customerNumber int NOT NULL PRIMARY KEY,

checkNumber int NOT NULL,

paymentDate DATE NOT NULL,

amount int NOT NULL

);

Select paymentDate, sum(amount) from payments group by paymentDate;

**ANS 10)** create table products(

productCode varchar(15) NOT NULL PRIMARY KEY,

productName varchar(20) NOT NULL,

productLine varchar(15) NOT NULL, productScale int NOT NULL,

productVender varchar(20) NOT NULL, productDescription varchar(40) NOT NULL,

quantityinStock int NOT NULL, buyPrice float NOT NULL, MSRP float NOT NULL

);

Select productName, MSRP, productDescription from products;

**ANS 11)** select productName, productDescription from products where (Select productCode

from orderDetails order by count(productName) desc limit 1);

**ANS 12)** select customers.city,COUNT(orders.orderNumber)

from customers LEFT JOIN order

ON customer.customerNumber = orders.customerNumber group by city order by COUNT (orders.orderNumber) desc limit 1;

**ANS 13)** select state, COUNT(customerNumber) from customers group by state order by count (distinct customerNumber) desc limit 1;

**ANS 14)** select employeeNumber, CONCAT(firstName,’ ’, lastName) AS Full\_Name

from employees;

**ANS 15)** select orders.orderNumber,customers.customerName**,** (orderdetails .quantityOrdered × orderdetails. priceEach) as TotalAmountPay

from orders left join customers

ON orders.customerName = customer.customerNumber

left join orderdetails

ON orderdetails.orderNumber = order.orderNumber ;